

**A SYSTEM AND METHOD FOR REAL-TIME PRICING
WITH VOLUME DISCOUNTING**

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Robert A. Foster

RELATED PATENTS

The present application is related to the commonly owned U.S. Patent No. 6,052,672 entitled "DATA PROCESSING SYSTEM FOR COMPLEX PRICING AND
10 TRANSACTIONAL ANALYSIS," which is hereby incorporated by reference herein in its entirety.

RELATED APPLICATIONS

The present application is related to the co-pending and commonly owned U.S.
15 Patent application Serial No. 09/183,335 entitled "DATA PROCESSING SYSTEM FOR PRICING, COSTING AND BILLING OF FINANCIAL TRANSACTIONS," which is hereby incorporated by reference herein in its entirety.

COMPUTER PROGRAM LISTING APPENDIX

20 The computer program listing appendix attached hereto consists of two (2) identical compact disks, copy 1 and copy 2, each containing a listing of the software code for embodiments of components of this invention. Each compact disk contains the following files (date and time of creation, size in bytes, filename):

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01/31/01 03:31p <DIR> M-9381 US

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	01/12/01 04:05p	61,640 librecb_CPY.TXT
	01/12/01 04:05p	54,510 libwstcb_CPY.TXT

25 Directory of D:\M-9381 US\LXN

	01/31/01 03:27p	<DIR> .
	01/31/01 03:31p	<DIR> ..
	01/29/01 10:37a	46,085 LX0A463_CBL.TXT
	01/29/01 10:37a	150,845 LX1A305_CBL.TXT
30	01/29/01 10:37a	150,845 LX1A309_CBL.TXT
	01/29/01 10:37a	127,563 LX1E029_CBL.TXT
	01/29/01 10:37a	127,917 LX1E401_CBL.TXT
	01/29/01 10:37a	138,405 LX1E404_CBL.TXT

	01/29/01 10:37a	56,995 LX1E405_CBL.TXT
	01/29/01 10:37a	137,114 LX1E406_CBL.TXT
	01/29/01 10:37a	24,698 LX1E407_CBL.TXT
	01/29/01 10:37a	269,840 LX1E411_CBL.TXT
5	01/29/01 10:37a	33,630 LX1E440_CBL.TXT
	01/29/01 10:37a	48,859 LX1E441_CBL.TXT
	01/29/01 10:38a	36,024 LX1E442_CBL.TXT
	01/29/01 10:38a	36,868 LX1E443_CBL.TXT
	01/29/01 10:38a	23,375 LX1E444_CBL.TXT
10	01/29/01 10:38a	165,404 LX1E445_CBL.TXT
	01/29/01 10:38a	35,602 LX1E463_CBL.TXT
	01/29/01 10:38a	45,930 LX1R404_CBL.TXT
	01/29/01 10:38a	23,260 LX1R409_CBL.TXT
	01/29/01 10:38a	43,432 LX1R445_CBL.TXT
15	01/29/01 10:38a	21,443 LX2A305_CBL.TXT
	01/29/01 10:38a	21,443 LX2A309_CBL.TXT
	01/29/01 10:38a	81,672 LX2E029_CBL.TXT
	01/29/01 10:38a	81,527 LX2E401_CBL.TXT
	01/29/01 10:38a	97,096 LX2E404_CBL.TXT
20	01/29/01 10:38a	38,786 LX2E405_CBL.TXT
	01/29/01 10:38a	89,480 LX2E406_CBL.TXT
	01/29/01 10:38a	24,608 LX2E407_CBL.TXT
	01/29/01 10:38a	165,091 LX2E411_CBL.TXT
	01/29/01 10:38a	24,187 LX2E440_CBL.TXT
25	01/29/01 10:38a	73,667 LX2E441_CBL.TXT
	01/29/01 10:38a	27,125 LX2E442_CBL.TXT
	01/29/01 10:38a	26,856 LX2E443_CBL.TXT
	01/29/01 10:38a	20,100 LX2E444_CBL.TXT
	01/29/01 10:38a	110,268 LX2E445_CBL.TXT
30	01/29/01 10:38a	26,421 LX2E463_CBL.TXT
	01/29/01 10:38a	22,323 LX3A305_CBL.TXT
	01/29/01 10:38a	22,323 LX3A309_CBL.TXT
	01/29/01 10:38a	29,944 LX4A305_CBL.TXT

	01/29/01 10:38a	29,944 LX4A309_CBL.TXT
	01/29/01 10:38a	19,684 LX5A305_CBL.TXT
	01/29/01 10:38a	19,684 LX5A309_CBL.TXT
	Directory of D:\M-9381 US\MFS	
5	01/31/01 03:28p	<DIR> .
	01/31/01 03:31p	<DIR> ..
	01/29/01 10:41a	222 ZABEND1_CBL.TXT
	01/29/01 10:41a	6,631 ZCALLSV_CBL.TXT
	01/29/01 10:41a	1,077 ZCBLERR_CBL.TXT
10	01/29/01 10:41a	4,857 ZCONNECT_CBL.TXT
	01/29/01 10:41a	5,291 ZCRERPT_CBL.TXT
	01/29/01 10:41a	276 ZDEBUG1_CBL.TXT
	01/29/01 10:41a	393 ZDEBUG2_CBL.TXT
	01/29/01 10:41a	1,728 ZDISCON_CBL.TXT
15	01/29/01 10:41a	1,041 ZGETTXT_CBL.TXT
	01/29/01 10:41a	6,932 ZINIINP_CBL.TXT
	01/29/01 10:41a	891 ZINTJUL_CBL.TXT
	01/29/01 10:41a	2,153 ZINTTME_CBL.TXT
	01/29/01 10:41a	829 ZJULDAY_CBL.TXT
20	01/29/01 10:41a	624 ZJULDYN_CBL.TXT
	01/29/01 10:41a	1,479 ZJULSTM_CBL.TXT
	01/29/01 10:41a	1,562 ZJULTME_CBL.TXT
	01/29/01 10:41a	5,953 ZLEVENT_CBL.TXT
	01/29/01 10:41a	698 ZOLE001_CBL.TXT
25	01/29/01 10:41a	1,691 ZOLE002_CBL.TXT
	01/29/01 10:41a	696 ZOLE100_CBL.TXT
	01/29/01 10:41a	696 ZOLE101_CBL.TXT
	01/29/01 10:41a	696 ZOLE102_CBL.TXT
	01/29/01 10:41a	696 ZOLE103_CBL.TXT
30	01/29/01 10:41a	696 ZOLE104_CBL.TXT
	01/29/01 10:41a	696 ZOLE105_CBL.TXT
	01/29/01 10:41a	696 ZOLE106_CBL.TXT
	01/29/01 10:41a	696 ZOLE107_CBL.TXT

	01/29/01 10:41a	696 ZOLE108_CBL.TXT
	01/29/01 10:41a	696 ZOLE109_CBL.TXT
	01/29/01 10:41a	133,143 ZPREPRC_CBL.TXT
	01/29/01 10:41a	1,772 ZSQLERR_CBL.TXT
5	01/29/01 10:41a	1,198 ZTIME01_CBL.TXT
	01/29/01 10:41a	1,769 ZTJULDY_CBL.TXT
	01/29/01 10:41a	2,111 ZTMFTRN_CBL.TXT
	01/29/01 10:41a	1,090 ZTRG001_CBL.TXT
	01/29/01 10:41a	492 ZTRG002_CBL.TXT
10	Directory of D:\M-9381 US\MSC	
	01/31/01 03:30p	<DIR> .
	01/31/01 03:31p	<DIR> ..
	01/29/01 12:25p	53,642 BMSC201_CBL.TXT
	01/29/01 12:25p	130,025 BMSC230_CBL.TXT
15	01/29/01 10:59a	977 BMSC230_CPY.TXT
	01/29/01 12:25p	133,301 BMSC262_CBL.TXT
	01/29/01 10:59a	982 BMSC262_CPY.TXT
	01/29/01 01:35p	113,486 BMSC263_CBL.TXT
	01/29/01 10:59a	330 BMSC263_CPY.TXT
20	01/29/01 12:25p	154,552 BMSC267_CBL.TXT
	01/29/01 10:59a	1,308 BMSC267_CPY.TXT
	01/29/01 12:25p	134,918 BMSC275_CBL.TXT
	01/29/01 10:59a	977 BMSC275_CPY.TXT
	01/29/01 12:26p	153,076 BMSC276_CBL.TXT
25	01/29/01 10:59a	1,305 BMSC276_CPY.TXT
	01/29/01 12:26p	106,890 BMSC300_CBL.TXT
	01/29/01 11:00a	330 BMSC300_CPY.TXT
	01/29/01 12:26p	104,861 BMSC301_CBL.TXT
	01/29/01 11:00a	330 BMSC301_CPY.TXT
30	01/29/01 12:37p	171,201 BMSC350_CBL.TXT
	01/29/01 11:00a	330 BMSC350_CPY.TXT
	01/29/01 12:26p	128,125 BMSC351_CBL.TXT
	01/29/01 11:00a	330 BMSC351_CPY.TXT

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	01/29/01 11:01a	330 BMSC604_CPY.TXT
	01/29/01 12:28p	117,263 BMSC605_CBL.TXT
	01/29/01 11:01a	330 BMSC605_CPY.TXT
	01/29/01 12:27p	328,668 BMSC606_CBL.TXT
5	01/29/01 11:01a	330 BMSC606_CPY.TXT
	01/29/01 12:15p	101,418 BMSC607_CBL.TXT
	01/29/01 11:01a	330 BMSC607_CPY.TXT
	01/29/01 10:39a	73,803 IMSC301_CBL.TXT
	01/29/01 10:53a	46,777 IMSC301_CPY.TXT
10	01/29/01 10:39a	23,449 IMSC302_CBL.TXT
	01/29/01 10:53a	8,159 IMSC302_CPY.TXT
	01/29/01 10:39a	30,221 IMSC303_CBL.TXT
	01/29/01 10:53a	14,128 IMSC303_CPY.TXT
	01/29/01 10:39a	62,937 IMSC304_CBL.TXT
15	01/29/01 10:53a	40,417 IMSC304_CPY.TXT
	01/29/01 10:39a	35,204 IMSC305_CBL.TXT
	01/29/01 10:53a	18,042 IMSC305_CPY.TXT
	01/29/01 10:39a	42,240 IMSC306_CBL.TXT
	01/29/01 10:53a	27,845 IMSC306_CPY.TXT
20	01/29/01 10:39a	54,964 IMSC308_CBL.TXT
	01/29/01 10:53a	36,148 IMSC308_CPY.TXT
	01/29/01 10:39a	61,996 IMSC310_CBL.TXT
	01/29/01 10:53a	40,517 IMSC310_CPY.TXT
	01/29/01 04:44p	359,347 LMSC305_CBL.TXT
25	01/29/01 04:44p	359,429 LMSC309_CBL.TXT
	01/29/01 04:52p	210,026 LMSC350_CBL.TXT
	01/29/01 12:46p	114,054 LMSC351_CBL.TXT
	01/29/01 10:47a	2,610 LMSC351_CPY.TXT
	01/29/01 01:37p	101,195 LMSC360_CBL.TXT
30	01/29/01 12:37p	168,284 LMSC600_CBL.TXT
	01/29/01 04:44p	23,909 LMSC602_CBL.TXT
	01/29/01 12:37p	28,016 LMSC603_CBL.TXT
	01/29/01 12:38p	33,163 LMSC604_CBL.TXT

	01/29/01 12:38p	22,464 LMSC605_CBL.TXT
	01/29/01 12:38p	21,301 LMSC606_CBL.TXT
	01/29/01 12:38p	144,338 LMSC607_CBL.TXT
	01/29/01 04:44p	111,911 RMSC301m.TXT
5	01/29/01 04:44p	47,627 RMSC302m.TXT
	01/29/01 04:44p	65,115 RMSC303m.TXT
	01/29/01 04:44p	88,736 RMSC304m.TXT
	01/29/01 04:35p	59,224 RMSC305m.TXT
	01/29/01 04:44p	68,814 RMSC306m.TXT
10	01/29/01 04:44p	97,072 RMSC308m.TXT
	01/29/01 12:38p	223,681 SMSC301_CBL.TXT
	01/29/01 10:58a	675 SMSC301_CPY.TXT
	01/29/01 12:38p	89,057 SMSC302_CBL.TXT
	01/29/01 10:58a	675 SMSC302_CPY.TXT
15	01/29/01 04:44p	129,411 SMSC303_CBL.TXT
	01/29/01 12:38p	250,088 SMSC304_CBL.TXT
	01/29/01 10:59a	672 SMSC304_CPY.TXT
	01/29/01 04:44p	57,109 SMSC305_CBL.TXT
	01/29/01 12:38p	197,292 SMSC306_CBL.TXT
20	01/29/01 12:38p	284,622 SMSC308_CBL.TXT
	01/29/01 10:59a	1,641 SMSC308_CPY.TXT
	01/29/01 04:44p	57,109 SMSC309_CBL.TXT
	01/29/01 12:38p	147,371 SMSC310_CBL.TXT
	01/29/01 10:59a	996 SMSC310_CPY.TXT
25	Directory of D:\M-9381 US\SCRIPTS	
	01/31/01 03:30p	<DIR> .
	01/31/01 03:31p	<DIR> ..
	11/28/00 11:44a	14,383 Fstdev_SCP.TXT
	01/29/01 10:35a	275,599 LNT_DEMO_SCP.TXT
30	01/29/01 10:35a	83,059 LNT_OPS_SCP.TXT
	01/29/01 10:35a	67,790 LNT_USER_SCP.TXT
	01/29/01 10:35a	149,283 Lnt_advanced_SCP.TXT
	01/29/01 10:35a	280,531 Lnt_regntest_SCP.TXT

	01/29/01 10:35a	46,957 Lnt_security_SCP.TXT
	01/29/01 10:35a	285,104 Lnt_super_SCP.TXT
	01/29/01 10:35a	15,897 NSK_OPS_SCP.TXT
	01/29/01 10:35a	9,682 NSK_USER_SCP.TXT
5	01/29/01 10:35a	35,944 Nsk_advanced_SCP.TXT
	01/29/01 10:35a	53,921 Nsk_regntest_SCP.TXT
	01/29/01 10:35a	4,024 Nsk_security_SCP.TXT
	01/29/01 10:35a	56,196 Nsk_super_SCP.TXT
	10/24/00 08:24a	43,345 Pccase_SCP.TXT
10	01/29/01 10:35a	85,214 RNT_OPS_SCP.TXT
	01/29/01 10:35a	69,866 RNT_USER_SCP.TXT
	01/29/01 10:35a	151,510 Rnt_advanced_SCP.TXT
	01/29/01 10:35a	282,853 Rnt_regntest_SCP.TXT
	01/29/01 10:35a	49,010 Rnt_security_SCP.TXT
15	01/29/01 10:35a	287,425 Rnt_super_SCP.TXT
	Directory of D:\M-9381 US\SQL	
	01/31/01 03:31p	<DIR> .
	01/31/01 03:31p	<DIR> ..
	11/24/00 06:24p	3,616 Currency_Ref_Integ_Check_Execs_sql.txt
20	05/13/99 05:12p	993 Relate_Markets_To_Std_PriceHdrs_sql.txt
	05/13/99 02:38p	2,297 Service_Ref_Integ_Check_Execs_sql.txt
	12/22/00 10:18a	114,758 create_all_procs_sql.txt
	01/11/01 03:57p	302,536 create_all_tables_sql.txt
	Directory of D:\M-9381 US\WEBAPP	
25	01/31/01 03:35p	<DIR> .
	01/31/01 03:31p	<DIR> ..
	01/31/01 03:33p	<DIR> FUNCS
	04/30/99 05:38p	1,582 Fstgwy_asp.txt
	01/31/01 03:33p	<DIR> GENERAL
30	06/13/00 01:33p	972 Index_htm.txt
	01/31/01 03:33p	<DIR> SCRIPTS
	01/31/01 03:34p	<DIR> SCRNS
	01/31/01 03:35p	<DIR> STYLES

01/31/01 03:33p	<DIR>	.
01/31/01 03:35p	<DIR>	..
01/29/01 11:20a		836 FUNC001_ASP.TXT
01/29/01 11:20a		966 FUNC012_ASP.TXT
01/29/01 11:20a		845 FUNC014_ASP.TXT
01/29/01 11:20a		955 FUNC016_ASP.TXT
01/29/01 11:20a		955 FUNC017_ASP.TXT
01/29/01 11:20a		855 FUNC019_ASP.TXT
01/29/01 11:20a		958 FUNC020_ASP.TXT
01/29/01 11:20a		964 FUNC022_ASP.TXT
01/29/01 11:20a		951 FUNC023_ASP.TXT
01/29/01 11:20a		961 FUNC024_ASP.TXT
01/29/01 11:20a		954 FUNC025_ASP.TXT
01/29/01 11:20a		962 FUNC026_ASP.TXT
01/29/01 11:20a		960 FUNC028_ASP.TXT
01/29/01 11:20a		963 FUNC050_ASP.TXT
01/29/01 11:20a		859 FUNC053_ASP.TXT
01/29/01 11:20a		969 FUNC054_ASP.TXT
01/29/01 11:20a		843 FUNC055_ASP.TXT
01/29/01 11:20a		854 FUNC056_ASP.TXT
01/29/01 11:20a		966 FUNC057_ASP.TXT
01/29/01 11:20a		965 FUNC070_ASP.TXT
01/29/01 11:20a		965 FUNC071_ASP.TXT
01/29/01 11:20a		973 FUNC072_ASP.TXT
01/29/01 11:20a		973 FUNC073_ASP.TXT
01/29/01 11:20a		970 FUNC074_ASP.TXT
01/29/01 11:20a		968 FUNC075_ASP.TXT
01/29/01 11:20a		964 FUNC076_ASP.TXT
01/29/01 11:20a		974 FUNC077_ASP.TXT
01/29/01 11:20a		977 FUNC078_ASP.TXT
01/29/01 11:20a		976 FUNC079_ASP.TXT
01/29/01 11:20a		954 FUNC103_ASP.TXT

	01/29/01 11:20a	960 FUNC104_ASP.TXT
	01/29/01 11:20a	953 FUNC106_ASP.TXT
	01/29/01 11:20a	951 FUNC107_ASP.TXT
	01/29/01 11:20a	949 FUNC114_ASP.TXT
5	01/29/01 11:20a	962 FUNC115_ASP.TXT
	01/29/01 11:20a	952 FUNC116_ASP.TXT
	01/29/01 11:20a	953 FUNC117_ASP.TXT
	01/29/01 11:20a	852 FUNC118_ASP.TXT
	01/29/01 11:20a	964 FUNC121_ASP.TXT
10	01/29/01 11:20a	970 FUNC122_ASP.TXT
	01/29/01 11:20a	963 FUNC123_ASP.TXT
	01/29/01 11:20a	961 FUNC124_ASP.TXT
	01/29/01 11:20a	959 FUNC126_ASP.TXT
	01/29/01 11:20a	972 FUNC127_ASP.TXT
15	01/29/01 11:20a	962 FUNC128_ASP.TXT
	01/29/01 11:20a	963 FUNC129_ASP.TXT
	01/29/01 11:20a	971 FUNC191_ASP.TXT
	01/29/01 11:20a	967 FUNC192_ASP.TXT
	01/29/01 11:20a	972 FUNC193_ASP.TXT
20	01/29/01 11:20a	967 FUNC194_ASP.TXT
	01/29/01 11:20a	977 FUNC195_ASP.TXT
	09/28/00 10:23a	847 FUNC310_ASP.TXT
	01/29/01 11:20a	861 FUNC702_ASP.TXT
	01/29/01 11:20a	867 FUNC703_ASP.TXT
25	01/29/01 11:20a	859 FUNC704_ASP.TXT
	01/29/01 11:20a	953 FUNC706_ASP.TXT
	01/29/01 11:20a	969 FUNC707_ASP.TXT
	01/29/01 11:20a	847 FUNC708_ASP.TXT
	01/29/01 11:20a	849 FUNC709_ASP.TXT
30	01/29/01 11:20a	852 FUNC710_ASP.TXT
	01/29/01 11:20a	846 FUNC711_ASP.TXT
	01/29/01 11:20a	969 FUNC712_ASP.TXT
	01/29/01 11:20a	957 FUNC713_ASP.TXT

	01/29/01 11:20a	967 FUNC714_ASP.TXT
	01/29/01 11:20a	957 FUNC715_ASP.TXT
	01/29/01 11:20a	977 FUNC722_ASP.TXT
	01/29/01 11:20a	963 FUNC723_ASP.TXT
5	01/29/01 11:20a	977 FUNC724_ASP.TXT
	01/29/01 11:20a	966 FUNC725_ASP.TXT
	01/29/01 11:20a	968 FUNC726_ASP.TXT
	01/29/01 11:20a	971 FUNC727_ASP.TXT
	01/29/01 11:20a	978 FUNC729_ASP.TXT
10	01/29/01 11:20a	965 FUNC730_ASP.TXT
	01/29/01 11:20a	971 FUNC731_ASP.TXT
	01/29/01 11:20a	967 FUNC732_ASP.TXT
	01/29/01 11:20a	964 FUNC733_ASP.TXT
	01/29/01 11:20a	967 FUNC734_ASP.TXT
15	01/29/01 11:20a	862 FUNC741_ASP.TXT
	01/29/01 11:20a	868 FUNC742_ASP.TXT
	01/29/01 11:20a	858 FUNC743_ASP.TXT
	01/29/01 11:20a	860 FUNC744_ASP.TXT
	01/29/01 11:20a	863 FUNC745_ASP.TXT
20	01/29/01 11:20a	860 FUNC746_ASP.TXT
	01/29/01 11:20a	866 FUNC747_ASP.TXT
	01/29/01 11:20a	856 FUNC748_ASP.TXT
	01/29/01 11:20a	858 FUNC749_ASP.TXT
	01/29/01 11:20a	861 FUNC750_ASP.TXT
25	01/29/01 11:20a	861 FUNC751_ASP.TXT
	01/29/01 11:20a	857 FUNC752_ASP.TXT
	01/29/01 11:20a	858 FUNC753_ASP.TXT
	01/29/01 11:20a	856 FUNC754_ASP.TXT
	01/29/01 11:20a	857 FUNC755_ASP.TXT
30	01/29/01 11:20a	846 FUNC764_ASP.TXT
	01/29/01 11:20a	846 FUNC765_ASP.TXT
	01/29/01 11:20a	848 FUNC766_ASP.TXT
	01/29/01 11:20a	866 FUNC801_ASP.TXT

	01/29/01 11:20a	869 FUNC802_ASP.TXT
	01/29/01 11:20a	869 FUNC803_ASP.TXT
	01/29/01 11:20a	861 FUNC804_ASP.TXT
	01/29/01 11:20a	864 FUNC805_ASP.TXT
5	01/29/01 11:20a	868 FUNC806_ASP.TXT
	01/29/01 11:20a	867 FUNC807_ASP.TXT
	01/29/01 11:20a	859 FUNC808_ASP.TXT
	01/29/01 11:20a	975 FUNC809_ASP.TXT
	01/29/01 11:20a	978 FUNC810_ASP.TXT
10	01/29/01 11:20a	978 FUNC811_ASP.TXT
	01/29/01 11:20a	969 FUNC812_ASP.TXT
	01/29/01 11:20a	970 FUNC813_ASP.TXT
	01/29/01 11:20a	865 FUNC814_ASP.TXT
	01/29/01 11:20a	867 FUNC815_ASP.TXT
15	01/29/01 11:20a	862 FUNC816_ASP.TXT
	01/29/01 11:20a	869 FUNC817_ASP.TXT
	01/29/01 11:20a	868 FUNC818_ASP.TXT
	01/29/01 11:20a	859 FUNC819_ASP.TXT
	01/29/01 11:20a	860 FUNC820_ASP.TXT
20	01/29/01 11:20a	961 FUNC899_ASP.TXT
	Directory of D:\M-9381 US\WEBAPP\GENERAL	
	01/31/01 03:33p	<DIR> .
	01/31/01 03:35p	<DIR> ..
	06/17/99 02:09p	5,428 Implicit_asp.txt
25	06/15/99 01:47p	532 LGNERR_asp.txt
	05/19/00 03:56p	11,056 Splash_asp.txt
	05/18/00 12:37p	4,554 copyright_hm.txt
	12/05/00 06:38p	15,911 counter_hm.txt
	05/19/00 11:25a	1,798 intranetdenied_hm.txt
30	12/05/00 05:13p	4,059 intranethomepage_asp.txt
	05/19/00 11:25a	1,913 intranetieonly_hm.txt
	07/06/00 02:24p	3,764 logon_asp.txt
	01/29/01 11:20a	16,715 menu_asp.txt


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BACKGROUND

Field

The present invention relates generally to pricing systems and, in particular, to a
30 system and method of real-time pricing.

Description of the Related Art

Many products and services are commodities that are sold in very competitive markets. New competition can also come, for example, from product and service improvements, new products, new services, lower prices, new technology, the use of the Internet, mergers, and acquisitions. Pricing is often a major factor in a customer's decision as to what product or service to purchase or use. In many markets, the capability to manage pricing strategies better than the competition can be the competitive advantage that is needed to succeed in the competitive market.

Many different pricing strategies have been developed by companies to gain a competitive advantage over the competition. One such strategy employed by companies is "volume discounting." Companies provide volume discounts to influence consumers to purchase its products and services. Volume discounting affords the benefits of a large number or quantity of purchases, typically within a set period of time (e.g., a billing cycle). A consumer benefits from his or her prior purchases in that all the purchases in a billing cycle are considered in applying the volume discount.

Because the total volume of products or services purchased by a consumer is not known until the end of a billing cycle, the volume discount, and as a result, the actual price of the product or service as it applies to the consumer, cannot be determined until the end of a billing cycle. Thus, even though pricing may be a major or deciding factor in a consumer's decision, currently, the benefit afforded by volume discounting is determined at the end of a billing cycle. At the time the consumer considers making a product or service purchase, the consumer is provided a price that fails to account for volume discounting and, as a result, is likely higher than the price the consumer might end up paying.

Thus, the consumer is likely to base his or her purchasing decision on an incorrect price, such as, by way of example, a unit price (e.g., a price that does not take into consideration volume discounting). A company can benefit greatly by being able to provide a price that is closer to the actual price the consumer is likely to pay after accounting for the volume discounts, especially if it is a lower price. Therefore, what is needed is an infrastructure that enables a company to manage its pricing strategies and to provide a price that is more indicative of the price the consumer will ultimately pay.

SUMMARY

1 The present disclosure is directed to a system and corresponding methods that facilitate the calculation of a real-time price for a transaction during a billing cycle that accounts for volume discounts resulting from transactions that occurred previously during
5 the billing cycle. A data processing system maintains a record of the transactions that occur during a billing cycle. The data processing system then calculates a real-time price quote for the transaction by applying volume discounts resulting from the transactions that previously occurred during the billing cycle.

For purposes of summarizing the invention, certain aspects, advantages, and novel
10 features of the invention have been described herein. It is to be understood that not necessarily all such advantages may be achieved in accordance with any one particular embodiment of the invention. Thus, the invention may be embodied or carried out in a manner that achieves or optimizes one advantage or group of advantages as taught herein without necessarily achieving other advantages as may be taught or suggested herein.

15 In one embodiment, a method for pricing transactions in real-time includes: receiving a request for a real-time price quote for a transaction from a first account, the request being received at a first instance in time during a billing cycle; determining a first production service, the first production service being a component of the transaction; determining a count of first production service instances representing the first production
20 service in the received transaction; determining a billable entity for the transaction, the billable entity comprising one or more related accounts, wherein the related accounts includes the first account; determining a total of the first production service instances purchased by the related accounts during the billing cycle up to the first instance in time, the total including the count of the first production service instances in the received
25 transaction; determining a price applicable to the total of the first production service instances based on a pricing method; and apportioning the price to the received transaction based on the count of the first production service instance in the received transaction.

In another embodiment, a method for real-time pricing includes: receiving a
30 request for a real-time price quote for a transaction, the request being received at a first instance in time during a billing cycle, wherein the transaction comprises a number of first production service instances, each first production service instance representing a first production service; determining a total count of production service instances

consumed during the billing cycle up to the first instance in time based on a pricing relationship; determining a billing service appropriate for the first production service; calculating a price for the first production service from a price table based on a first attribute for the billing service and the total count of production service instances
5 consumed; and apportioning the price to the received transaction based on the number of first production service instances in the transaction.

In still another embodiment, a computer-readable storage medium has stored thereon computer instructions that, when executed by a computer, cause the computer to:
10 receive a request for a real-time price quote for a transaction, the request being received at a first instance in time during a billing cycle, wherein the transaction comprises a number of first production service instances, each instance representing a first production service; determine a total count of production service instances consumed during the billing cycle up to the first instance in time based on a pricing relationship; determine a
15 billing service appropriate for the first production service; calculate a price for the first production service from a price table based on a first attribute for the billing service and the total count of production service instances consumed; and apportion the price to the received transaction based on the number of first production service instances in the transaction.

These and other embodiments of the present invention will also become readily
20 apparent to those skilled in the art from the following detailed description of the embodiments having reference to the attached figures, the invention not being limited to any particular embodiment(s) disclosed.

BRIEF DESCRIPTION OF THE DRAWINGS

25 Figure 1 illustrates a flow chart of an exemplary method for calculating a real-time price with volume discounting.

Figure 2 illustrates a flow chart of an exemplary method for calculating a variance to a real-time price with volume discounting.

30 DETAILED DESCRIPTION

According to this invention, certain limitations imposed by conventional pricing systems have been overcome.

A data processing system and corresponding methods, according to an embodiment of the present invention, facilitates a real-time pricing of a transaction with volume discounting. "Transaction" here generally refers to a product or service that is offered by a provider (e.g., manufacturer, retailer, wholesaler, distributor, service provider, etc.) for consumption by one or more consumers. In one embodiment, the provider may be the operator of the data processing system. In another embodiment, the provider may purchase the services offered by the data processing system as disclosed herein from the operator or administrator of the data processing system (e.g., the provider of the transaction is different from the provider of the data processing system services).

In one embodiment, the data processing system receives during a billing cycle a request for a real-time price quote for a transaction from, for example, an account. The account may be a consumer of the transaction. The billing cycle specifies a time duration (e.g., day, week, month, quarter, year), at the end of which the account is billed for the transactions consumed or purchased during the billing cycle.

The data processing system analyzes the transaction to determine the transaction's various components. The transaction provider may define the components of the transaction. The conversion of the transaction into its components allows the transaction provider to determine the cost of the transaction, in component parts, which in turn, enable the transaction provider to determine an appropriate price for the transaction. A suitable database system for implementing the transaction analysis in accordance with the present invention is described in U.S. Pat. No. 6,052,672, entitled "DATA PROCESSING SYSTEM FOR COMPLEX PRICING AND TRANSACTIONAL ANALYSIS," which is hereby incorporated by reference in its entirety. However, other database systems can be used to implement a data processing system using the principles described herein.

In one embodiment, the data processing system calculates a real-time price for the transaction during a billing cycle as if it was the end of the billing cycle. The data processing system breaks down the transaction into its component parts. The component parts are then priced by applying a volume discount applicable to each component to determine a real-time price for each component. The data processing system then totals the real-time price of the components to determine the real-time price of the transaction.

The volume discount for a component may result from pricing relationships between parties (e.g., relationships between a number of components, accounts, customers, etc.) and the prior purchases of the component during the billing cycle up to

this time by the parties in the pricing relationship. The data processing system applies the volume discount applicable to a component to determine the price of the component. Thus, the data processing system applies all the relationship pricing and volume discounting known during the billing cycle up to the time when it received the request for quote to determine the real-time price of the transaction.

In another embodiment, the data processing system calculates a variance to the real-time transaction price. At the end of the billing cycle, the data processing system calculates a price for each transaction purchased during the billing cycle. In one embodiment, the data processing system calculates a price for the transaction by determining a price for each component of a transaction in the manner outlined above. This price is then compared to the real-time price quoted during the billing cycle (e.g., at the time the request for real-time price quote is received). If there is a variance or difference between the two prices, the data processing system may make or report adjustments as necessary. For example, there may have been subsequent purchases of a component of the transaction after the time of providing the real-time price quote. The subsequent purchases of the component may result in a larger volume discount, which, in turn, causes a variance in price (e.g., results in a lower price for the transaction).

Even though this invention is suitable to providing real-time pricing of various products and services in many industries (e.g., financial services, internet services, telecommunication services, etc.), the invention will be further disclosed in the context of the data processing system providing real-time pricing with volume discounting of financial products offered by a financial services company (FSC), such as, retail bank, wholesale bank, corporate bank, and investment bank.

Embodiments of the present invention are understood by referring to Figures 1-2 of the drawings. Throughout the drawings, components that correspond to components shown in previous figures are indicated using the same reference numbers.

The detailed description that follows is presented in terms of processes and symbolic representations of operations performed by conventional computers.

Transaction Overview

A transaction instance (e.g., financial transaction instance) takes place when a FSC provides a financial service and when a client or consumer purchases or consumes

the financial service. For example, an FSC may provide one or more financial services that are bundled together and offered to clients as financial transactions. Examples of financial transactions are checking accounts, cash management accounts, mortgages, funds transfers, safe deposit boxes, and the like.

5 In one embodiment, an FSC can use the data processing system to provide a real-time pricing of one or more financial transactions. Each financial transaction is defined in the data processing system in its component parts called production services. Thus, a financial transaction is related to the production services that map to or make up the financial transaction. The production services defining a particular financial transaction
10 are the individual actions that the FSC performs or that the FSC wishes to account for in performing or processing the financial transaction. Production services for a financial transaction may include, by way of example, debit from an account, credit to an account, over draft approval, and computer connection. Production services are akin to a bill of materials for a manufacturer in that each transaction can be defined by the production
15 services that are required to build or provide that transaction.

For clarity, the language of U.S. Pat. No. 6,052,672 is used herein. In particular, to distinguish an actual occurrence of a financial transaction performed by an FSC from a representation of the financial transaction in the data processing system, the actual occurrence of the financial transaction will be referred to as a financial transaction
20 instance. Similarly, a production service instance is the representation of an actual occurrence of a specific production service performed by the FSC.

A production service is further defined in the data processing system in its component parts called billing or billable services. Billing services and billable service are used interchangeably herein. The billable services are related to activities having a
25 cost or price, enabling the FSC to determine the cost of providing the financial transaction and the fees or prices the FSC is going to derive, earn, or charge the consumer (e.g., account) of the transaction. In one embodiment, the billable services are what appear on an accounting statement sent to the consumer. Thus, the consumer is informed of the transactions consumed, the related production services consumed, the related billable
30 services consumed, and the price charged for each of the billable services.

A billable service may be mapped to one or more price tables in the data processing system. The cost and/or price associated with a billable service is recorded in a price table. The price table includes pricing rules for the associated billable service.

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The data processing system maintains records for one or more billable entities. "Billable entity" here generally refers to a grouping of accounts for the purpose of applying volume discounting. Volume discounting may span the activity of the accounts within the billable entity. An account may be thought of as the consumer of the transaction. For example, a customer may actually be many companies or related companies that may be transacting with the FSC on one or more accounts. The billable entity is a composition of the accounts without regard to who the customers are, or whether one customer is involved or more than one customers are involved. Thus, volume discounting may span the activity of the accounts within a particular billable entity without regard to who the actual customers are or the number of customers involved in the billable entity.

In one embodiment, the data processing system provides for relationship pricing in conjunction with volume discounting. A pricing relationship may exist between a number of billable services, accounts, customers, and the like. For relationship pricing, the billable services, accounts, or customers in a relationship are factored in calculating a real-time price for a transaction. Relationship pricing in conjunction with volume discounting is an application of the volume discount based on the activities of the elements (i.e., billable services, accounts, customers) in a particular pricing relationship.

For example, as explained above, a group of accounts may be grouped together in a billable entity, creating a pricing relationship for the purposes of applying a volume discount. In another example, a group of billable services may be grouped together, creating a pricing relationship for the purposes of applying a volume discount. The volume discount is determined from the activity of the billable services within the group across all accounts in a particular billing entity. In still another example, a pricing relationship can exist for a group of accounts (e.g., not a complete billing entity) for a particular billable service. The volume discount is determined from the activity of the particular billing service across the group of accounts.

Billable services, pricing of billable services, pricing relationships, and relationship pricing is further described in U.S. Pat. No. 6,052,672. Pricing methods, including volume discounting is further described in the co-pending and commonly owned U.S. Pat. application Serial No. 09/183/335 entitled "DATA PROCESSING SYSTEM FOR PRICING, COSTING AND BILLING OF FINANCIAL TRANSACTIONS."

Method for Calculating a Real-Time Price with Volume Discounting

In one embodiment, the data processing system facilitates the calculation of a real-time price for a financial transaction with volume discounting at any time in a billing cycle. The data processing system contains data and program logic to receive a request to provide a real-time price quote for a financial transaction and calculates a real-time price that includes applicable volume discounts. The data processing system calculates the real-time price for the financial transaction irrespective of point in time within a particular billing cycle. The volume discounting is determined from pricing relationships provided by the data processing system.

Figure 1 illustrates a flow chart of an exemplary method 100 for calculating a real-time price of a financial transaction with volume discounting. Beginning at a start step 102, an FSC creates and defines the financial transactions and the mapping rules for the transactions, including the production services and the billing services, as maintained in the data processing system. The FSC also creates and defines the billing entities, accounts, pricing relationships, etc. maintained in the data processing system.

For example, the FSC defines a “wire transfer” as one financial transaction. The wire transfer is mapped to include three production services: “debit from account,” “credit to account,” and “overdraft protection.” Each of the production services is mapped to a respective billable service, and each billable service is respectively mapped to a price table. The FSC may create a billing entity to include four accounts: “Account A,” “Account B,” “Account C,” and “Account D.” Accounts A and B belong to Company ABC, and Accounts C and D belong to Company XYZ. The FSC sets a monthly billing cycle for the billing entity.

Furthermore, the FSC may agree to and create a pricing relationship for Accounts A, B, and C for the overdraft protection service. The pricing relationship entitles Accounts A, B, and C to the following volume discounting for the overdraft protection service:

Quantity 1 to 20	\$4.00/each
Quantity 21 to 50	\$3.00/each
Quantity 51 to 100	\$2.00/each
Quantity 100+	\$1.00/each

Thus, if the combined volume of overdraft protections used or purchased by the group of accounts in the pricing relationship (Accounts A, B, and C) exceed twenty, all the volume of overdraft protections purchased is priced at \$3.00 each. Likewise, if the combined volume of overdraft protections purchased by the group of accounts in the pricing relationship exceed fifty or one hundred, all the volume of overdraft protections purchased is priced at \$2.00 each or \$1.00 each, respectively. Otherwise, the first twenty overdraft protections are priced at \$4.00 each.

At step 104, the FSC receives a request for a real-time price quote for a financial transaction from a customer. Typically, the customer establishes one or more accounts with the FSC, and specifies a particular account in requesting the real-time quote for the financial transaction. In particular, the financial transaction data and the request for the real-time price quote is input into, and received by the data processing system. Continuing the wire transfer example, Company ABC, using Account A, may request a real-time price quote for a wire transfer. The request may have been submitted during a billing cycle, for example, the tenth day of the month.

At step 106, the data processing system performs transaction analysis on the financial transaction to determine the associated production services. In the above example, the data processing system determines that the wire transfer maps to, and is associated with the debit from account, credit to account, and overdraft protection production services.

At step 108, the data processing system determines if there is a production service to process or if it has processed all the production services. If there is a production service to process, the data processing system identifies the production service and determines the appropriate billable services associated with the identified production service at step 110. A production service may map to one or more billable services. Continuing the above example, the data processing system may start by processing the overdraft protection production service (step 108). The data processing system then determines that the overdraft protection service maps to a single billable service (step 110).

At step 112, the data processing system determines if there is a billable service to process. If all the billable services for the production service have been processed, the data processing system returns to step 108 to process the next production service. If there is a billable service to process, the data processing system identifies the billable service

and determines the billing entity (i.e., billable entity) for the billable service at step 114. Continuing the above example, the data processing system determines that for the overdraft protection service, it has to process the associated billable service (step 112) and that the billing entity includes Accounts A, B, C, and D (step 114).

5 At step 116, the data processing system determines if there is a pricing relationship established for the billable service. Continuing the above example, the data processing system determines that a pricing relationship exists between Accounts A, B, and C for the overdraft protection service. Thus, for the billable service associated with the overdraft protection service requested by Account A, an applicable pricing
10 relationship exists.

At step 118, the data processing system determines the total count of the billable service consumed or purchased by the accounts in the pricing relationship. The data processing system maintains a record of the number of the number of billable service instances purchased by the accounts in the pricing relationship. Continuing the above
15 example, the data processing system determines the number of billable service instances purchased by Accounts A, B, and C up to this point (i.e., tenth day) in the current billing cycle. For example, in this current billing cycle, a total of fifty overdraft protections may have been purchased (none by Account A, twenty by Account B, and thirty by Account C). Thus, the current overdraft protection would be the fifty-first purchased in the current
20 billing cycle.

At step 120, the data processing system calculates a price for the billable service from an associated price table based on the total number of billable service instances. The data processing system applies any applicable volume discount resulting from the billable service instances purchased by the accounts in the pricing relationship.
25 Continuing the above example, the data processing system determines from the price table for the billable service associated with the overdraft protection service that the fifty-first overdraft protection instance purchased results in all the overdraft protection instances purchased by the group of accounts in the pricing relationship to be priced at \$2.00 each. Thus, fifty-one overdraft protection instances is priced at a total price of
30 \$102.00.

At step 122, the data processing system apportions the portion of the total price for the billable service instances to the current billable service being processed. Continuing the above example, the data processing system apportions a price of \$2.00

(1/51 of the total price of \$102.00) to the current billable service associated with the overdraft protection. Thus, the current billable service associated with the overdraft protection is priced at \$2.00. Thus, Account A benefits from the billable service instances purchased by Accounts B and C. Company ABC (Account A) receives a volume discount as a result of purchases made by Company XYZ (Account C). The data processing system then returns to step 112 to continue processing the next billable service associated with the overdraft protection service.

The data processing system processes the other production services (i.e., debit from account and credit to account) associated with the financial transaction (i.e., wire transfer) in the manner described above. If, at step 108, all the production services for the financial transaction have been processed, the data processing system calculates the real-time price quote for the requested financial transaction at step 124. The financial transaction price is determined by summing the prices of the associated billable services. The data processing system provides the real-time price quote and ends at step 126.

Those of ordinary skill in the art will appreciate that, for this and other methods disclosed herein, the functions performed in the exemplary flow charts may be implemented in differing order. Furthermore, steps outlined in the flow charts are only exemplary, and some of the steps may be optional, combined into fewer steps, or expanded into additional steps without detracting from the essence of the invention.

Method for Calculating a Variance to a Real-Time Price

In one embodiment, the data processing system recalculates the price for the financial transactions and the associated billable services at the end of the billing cycle to account for and accommodate changes that occurred during a billing cycle. The recalculation may result in a variance to the real-time price quoted and charged for a financial transaction to an account during the billing cycle. A variance to the price may result from reasons such as, by way of example, a change to a billing entity resulting in a change in applicable price table(s), a change to an allocation of an account to different departments or market segments resulting in a change in applicable price table(s), a new price becoming effective during a billing cycle, a change in a pricing relationship, additional financial transactions purchased during a billing cycle, and the like. The data processing system may report the variances between the real-time price and the end-of-billing cycle price to the FSC, for example, as either discounts or adjustments.

Figure 2 illustrates a flow chart of an exemplary method 200 for calculating a variance to a real-time price with volume discounting. Beginning at a start step 202, the data processing system identifies the financial transactions that occurred during the prior billing cycle. The data processing system may perform a transaction analysis for each financial transaction and determine the associated production services and billable services.

At step 204, the data processing system performs an end-of-billing cycle pricing for each billable service instance that occurred during the just ended billing cycle. In particular, the data processing system, for each billable service instance, determines the account that purchased the billable service instance. The data processing system identifies any applicable pricing relationships for the account. For example, there may have been a change in the pricing relationship. Continuing the above wire transfer example, the pricing relationship may have been changed during the billing cycle to include Account D, and Account D may have purchased forty overdraft protections during the billing cycle.

The data processing system determines an end-of-billing cycle count of the total number of billable service instances purchased by the accounts during the recently ended billing cycle. Continuing the above wire transfer example, between the tenth day of the billing cycle and the end of the billing cycle, Account A may have purchased an additional nine-teen overdraft protection services, for a total of twenty, at a price of \$2.00 each. Thus, the accounts in the pricing relationship at the end of the billing cycle (Accounts A, B, C, and D) purchased a total of one hundred and ten overdraft protection services (twenty by Account A, twenty by Account B, thirty by Account C, and forty by Account D).

At step 206, the data processing system calculates an end-of-billing cycle price for the billable service instances purchased during the billing cycle from the associated price table based on the end-of-billing cycle count. Continuing the above example, the data processing system determines from the price table that at a volume of one hundred and ten overdraft protection services, all the overdraft protection instances purchased by the accounts in the pricing relationship should be charged \$1.00 each. Thus, the one hundred and ten overdraft protection instances is priced at a total of \$110.00.

At step 208, the data processing system modifies the price apportioned to the billable service based on the end-of-billing cycle price. The data processing system

calculates the variance between the real-time price quoted and charged for each billable service instance and the end-of-billing cycle price for the billable service instance.

Continuing the above example, the data processing system determines that Account A was charged a total price of \$40.00 (\$2.00 for each overdraft protection service) for the twenty overdraft protection service instances purchased during the billing cycle. The data processing system calculates the end-of-billing cycle price for the twenty overdraft protection service instances purchased by Account A to be \$20.00 (\$1.00 for each overdraft protection service). Thus, there is a variance of \$20.00 for the twenty overdraft protections service instances purchased by Account A.

The data processing system calculates the variance for the remaining billable services and ends at step 210. In one embodiment, the data processing system generates a report to the FSC to report the end-of-billing cycle pricing. The report may include the calculated variances for each billable service, financial transaction, account, billing entity, etc. Thus, the data processing system efficiently adjusts to and incorporated changes to the billing parameters that occur during a billing cycle.

In one embodiment, a price variance may result from a change to an allocation of an account to a different department or market segment. This may result in a change to one or more applicable price tables for a billable service. The change the applicable price tables may affect the volume discount calculation and any applicable exception pricing calculation. Implementation of exception pricing is described in U.S. Pat. No. 6,052,672.

As described herein, the present invention in at least one embodiment facilitates a real-time pricing of a financial transaction during a billing cycle that accounts for applicable volume discounts. One embodiment of the present invention provides a data processing system that receives and processes a request to provide a real-time price quote for a financial transaction. The data processing system maintains a record of the billable service instances purchased during the billing cycle, and is able to account for applicable volume discounts in calculating a real-time price quote for the financial transaction at any instance in time during the billing cycle.

In at least one embodiment, the data processing system maintains a record of one or more pricing relationships. A pricing relationship may include one or more accounts, one or more services, or a combination of one or more accounts and services. The data processing system maintains a record of the billable service instances purchased by the

accounts in an applicable pricing relationship, and is able to account for the applicable volume discounts resulting from the pricing relationship in calculating a real-time price quote for the financial transaction during the billing cycle.

5 In at least one embodiment, the data processing system performs an end-of-billing period price calculation to identify variances to the real-time price quotes generated during the billing cycle. The calculated variances are reported to the FSC as discounts or adjustments to the price of the financial transactions. The data processing system permits changes to be made during a billing cycle, and the changes are reflected in the previously calculated and quoted real-time prices.

10 This invention may be provided in other specific forms and embodiments without departing from the essential characteristics as described herein. The embodiments described above are to be considered in all aspects as illustrative only and not restrictive in any manner. The following claims rather than the foregoing description indicate the scope of the invention.

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